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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/942,429

DATE: 09/18/2001  
TIME: 12:47:42

Input Set : A:\W110360.txt  
Output Set: N:\CRF3\09182001\I942429.raw

3 <110> APPLICANT: Jorge H. Capdevila, Michael Waterman, and Vijakumar Holla  
 5 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS RELATING TO HYPERTENSION  
 7 <130> FILE REFERENCE: 22000.0110U2  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/942,429  
 C--> 9 <141> CURRENT FILING DATE: 2001-08-29  
 9 <150> PRIOR APPLICATION NUMBER: 60/228,947  
 10 <151> PRIOR FILING DATE: 2000-08-29  
 12 <160> NUMBER OF SEQ ID NOS: 8  
 14 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 16 <210> SEQ ID NO: 1 ✓  
 17 <211> LENGTH: 4123 ✓  
 18 <212> TYPE: DNA ✓  
 19 <213> ORGANISM: Artificial Sequence ✓  
 21 <220> FEATURE:  
 22 <223> OTHER INFORMATION: Description of Artificial Sequence; Note =  
 23 Synthetic Construct ✓  
 25 <221> NAME/KEY: misc\_structure  
 26 <222> LOCATION: (0)...(0)  
 27 <223> OTHER INFORMATION: N = a, t, c or g  
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 31 cctgtcccaa gaaatggact ggatcttca atcattttact catccaacaa atatttgaag 120  
 32 ttgtaaaatg accacaaaatg gggctaaaag ttcagacgtt tggagcatgt ccctctcggt 180  
 33 ctttggtttt gaccaaagct cagaatttgtt gaaagaaaaga aaaagtagtg ggtagatgcatt 240  
 34 gttgtgtcac agtggaaatg gaagtagtgtt gtgttaaaga aatgtttttt atagataaaag 300  
 35 gatcaagtga gcggcaaaaca cacattcctt gcagagtgaa tgggctggct ttctagagat 360  
 36 tcttgttaaa atacctttt tttttgcctt tttgtggct tcacaactag gattaattttt 420  
 37 gggaaagataaa tcatgatcca ggtgaggata aagattccag agaaaggctt atttctacc 480  
 38 ctttaacttct ttgtttttct tcctttctaa aagttttgtc atttttaaaa tttttttttt 540  
 39 atttaattttt tttcatgcaa tataatttttga tcataattttt tccttcctt aacttctt 600  
 40 agatccttcag ggccttccta gctatccatc ttcatgtttaa tggatagact gacaaccaaa 660  
 41 acattcttcc tctgcttaaa taatatctcc ataaaatcta taaataaaatg aggttagttgg 720  
 42 aaactatctc agcaattttc aattgtattttt ctagtaatcc ttcaatatctt cattttttttt 780  
 W--> 43 aactttcgct ttatcttattt tttgtgnaca ttaatttttt tcaggcaagg cataatataat 840  
 44 atataattgg actgattttct ttatttagatg ttgccttatg tgaggtaag aatattttttt 900  
 45 aaattaaatgtt gtgactgaat aagtgtatggg caatttaatgtt attttagaaaa gaaaggtttt 960  
 46 attattccat tcagtcagaat tagtgagaca gagaaagatgtt ctgtcacagg ctgtgtatgtt 1020  
 47 ggtgaggctg attgagttttt ggtttttttt ggtttttttt ggtttttttt ggtttttttt 1080  
 48 catccatctt ggatcaatctt ggatgtgttgcacat tttttttttt tttttttttt tttttttttt 1140  
 49 cagctggatt tggatgtccat atgcaaaatgtt gactatgtt agaaaactttc agcaattttttt 1200  
 50 ttcatctgaa cacaccaactt actgttttgcacat tttttttttt tttttttttt tttttttttt 1260  
 51 caagcagctt cacatattttt tttttttttt tttttttttt tttttttttt tttttttttt 1320  
 52 ttaatgtctt gtccatgtact ttacatcttcc agcaaggata tacataacat gcaatatgtt 1380  
 53 cttcaataat agttgttgcacat tttttttttt tttttttttt tttttttttt tttttttttt 1440  
 54 caagactaga tactagatgtt ttgtttttttt tttttttttt tttttttttt tttttttttt 1500  
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Input Set : A:\W110360.txt  
Output Set: N:\CRF3\09182001\I942429.raw

57	ccagaaaacta ctaaccatgg gttttttttt attagccct acaaggtaact tggatggtat	1680
58	ctctgggttc ttccaatggg ccttcttgct cagtctattt ctggtgctgt tcaaggcagt	1740
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60	ttccccactgg ctttgggggc accatctgaa gggacaagga gtcggcagcatttctat	1860
61	ggtagagaa attcccaagt gcctgcttac agtgcatttc ggggagcaat atacggatcc	1920
62	tgcatttatga tcctgactat gtgaagggtgg ttctggggag atcagatcca aaggcttctg	1980
63	gaatttatca attcttgc ccctggattt gttatggttt gtcctgtt aatgggaaga	2040
64	agtggttcca gcatggcg atgttgcact cagccttcca ctatgacatc ctcaaaccct	2100
65	atgtcaaat catggcggac tctgtcaata taatgctaga taaatggag aagcttgatg	2160
66	gccaggacca ccctctggag atcttccact gtgttcatt gatgacactg gacactgtta	2220
67	tgaagtgtgc tttcagctac caaggcagtg ttcaaggatgg taaaattcc aagttgtata	2280
68	ctaaggctgt cgaggatcta aacaacctga ctttcttgc ctcgcggaaat gcctttata	2340
69	agtacaacat catctacaat atgtcctctg atggacgttt gtcccaccat gcctgccaga	2400
70	ttgctcacga gcacacagat ggagtgtatca agatgaggaa gtctcagctg cagaatgagg	2460
71	aagagctgca gaaggccagg aagaagagac acttggattt cttggacatc ctcttggat	2520
72	ccagaatggg ggtatggaaac agcttgtctg atgaggacatc gctgtcagag gtggacacat	2580
73	tcatgttga ggttcatgac actacagcca gtggaaatttc ctggattttc tatgtctgg	2640
74	ccacccaccc tgagcaccaa cagatgcga gagaggaggt gcagagcatt ctgggtgtat	2700
75	gaacctctgt cacatgggac catctgggccc agatgcccta caccaccatg tgcataagg	2760
76	aggccctgag gctctatcca ccagtaatat ctgtgagtcg agagctcagc tcacctgtca	2820
77	ccttcccaaga tggacgctcc atacccaaag gtatcacagc cacaatttcc atttatggcc	2880
78	tacatcataa cccacgttcc tggccaaacc caaagggtgtt tgaccctct agattgcac	2940
79	cagattcttc tcaccatagc catgcttatac tgccatttctc aggaggatca aggaactgca	3000
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81	ttgaatttgc gccagatccc accaggatcc cagtccttccat tgcaagactt gtgttgaagt	3120
82	ccaaagaatgg gatccacccat tgcataaga agctaaagata attctgatgg agtcaggcata	3180
83	gctccagagg tctgtgcct gcaataacctg cttttgtctc tggctttct gtactttgtct	3240
84	ttctcttgc ttcccatttc tctgtctct gcaatgtgtc ctgtcatctc atctttctgc	3300
85	cctcatttctc gtatgttttcc ctctagacac cttccataacc tgcgtcatgtc cctgtttccc	3360
86	atctcgctt aactctgacc agccactgaa cctgcagccca gcagcctgtc cccagccgt	3420
87	ttcacccctc ataaccatttgc cactgacaga ggaagatata ttttagaggg agacacttgt	3480
88	acctttctct cccttcagtt attagactt tgggacaatg gacatcatga attaaaacgt	3540
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90	gaacttgact caaaaataaga gatTTTttaga tatttctgtc tgtctcatag taaaaattaa	3660
91	tgttttcctg ctttctggca tatgcctcat cttttctatg aagtagtaat actgatacag	3720
92	aaaggttagag agaaatgaat agttttgtct actttggcc aaactgtgaa aaaatccatt	3780
93	ttatttcattt aatttctgtt tcccaatttc atttaagaca caggaaaact actcagcatg	3840
94	aactttgggg agccagagca gttttggca tccaggaaag catgttgccca tctgtccct	3900
95	actgttagaa tgtggtagaa ttctcagctc ctgagaggat gttctctgtct tttgactcct	3960
96	gagctgggtt tagagaaatg caggttggcg tttttgtga agctaaaggag ttttctgtact	4020
97	ttaacccgggt ctttatttgc ttcaaggatc tgattattca cttagtgtat ttggagaatt	4080
98	cctattaaaa tcacatgaca tggaaaaaaa aaaaaaaaagg aat	4123
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101	<211> LENGTH: 507	
102	<212> TYPE: PRT	
103	<213> ORGANISM: Artificial Sequence	
105	<220> FEATURE:	
106	<223> OTHER INFORMATION: Description of Artificial Sequence; Note =	
107	Synthetic Construct	

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111 <400> SEQUENCE: 2  
112 Met Gly Phe Phe Val Phe Ser Pro Thr Arg Tyr Leu Asp Gly Ile Ser  
113 1 5 10 15  
114 Gly Phe Phe Gln Trp Ala Phe Leu Leu Ser Leu Phe Leu Val Leu Phe  
115 20 25 30  
116 Lys Ala Val Gln Phe Tyr Leu Arg Arg Gln Trp Leu Leu Lys Thr Leu  
117 35 40 45  
118 Gln His Phe Pro Cys Met Pro Ser His Trp Leu Trp Gly His His Leu  
119 50 55 60  
120 Lys Asp Lys Glu Leu Gln Ile Leu Ile Trp Val Glu Lys Phe Pro  
121 65 70 75 80  
122 Ser Ala Cys Leu Gln Cys Leu Ser Gly Ser Asn Ile Arg Val Leu Leu  
123 85 90 95  
124 Tyr Asp Pro Asp Tyr Val Lys Val Val Leu Gly Arg Ser Asp Pro Lys  
125 100 105 110  
126 Ala Ser Gly Ile Tyr Gln Phe Phe Ala Pro Trp Ile Gly Tyr Gly Leu  
127 115 120 125  
128 Leu Leu Leu Asn Gly Lys Lys Trp Phe Gln His Arg Arg Met Leu Thr  
129 130 135 140  
130 Pro Ala Phe His Tyr Asp Ile Leu Lys Pro Tyr Val Lys Ile Met Ala  
131 145 150 155 160  
132 Asp Ser Val Asn Ile Met Leu Asp Lys Trp Glu Lys Leu Asp Gly Gln  
133 165 170 175  
134 Asp His Pro Leu Glu Ile Phe His Cys Val Ser Leu Met Thr Leu Asp  
135 180 185 190  
136 Thr Val Met Lys Cys Ala Phe Ser Tyr Gln Gly Ser Val Gln Leu Asp  
137 195 200 205  
138 Glu Asn Ser Lys Leu Tyr Thr Lys Ala Val Glu Asp Leu Asn Asn Leu  
139 210 215 220  
140 Thr Phe Phe Arg Leu Arg Asn Ala Phe Tyr Lys Tyr Asn Ile Ile Tyr  
141 225 230 235 240  
142 Asn Met Ser Ser Asp Gly Arg Leu Ser His His Ala Cys Gln Ile Ala  
143 245 250 255  
144 His Glu His Thr Asp Gly Val Ile Lys Met Arg Lys Ser Gln Leu Gln  
145 260 265 270  
146 Asn Glu Glu Glu Leu Gln Lys Ala Arg Lys Lys Arg His Leu Asp Phe  
147 275 280 285  
148 Leu Asp Ile Leu Leu Phe Ala Arg Met Glu Asp Arg Asn Ser Leu Ser  
149 290 295 300  
150 Asp Glu Asp Leu Arg Ala Glu Val Asp Thr Phe Met Phe Glu Gly His  
151 305 310 315 320  
152 Asp Thr Thr Ala Ser Gly Ile Ser Trp Ile Phe Tyr Ala Leu Ala Thr  
153 325 330 335  
154 His Pro Glu His Gln Gln Arg Cys Arg Glu Glu Val Gln Ser Ile Leu  
155 340 345 350  
156 Gly Asp Gly Thr Ser Val Thr Trp Asp His Leu Gly Gln Met Pro Tyr  
157 355 360 365  
158 Thr Thr Met Cys Ile Lys Glu Ala Leu Arg Leu Tyr Pro Pro Val Ile  
159 370 375 380

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160 Ser Val Ser Arg Glu Leu Ser Ser Pro Val Thr Phe Pro Asp Gly Arg  
161 385 390 395 400  
162 Ser Ile Pro Lys Gly Ile Thr Ala Thr Ile Ser Ile Tyr Gly Leu His  
163 405 410 415  
165 His Asn Pro Arg Phe Trp Pro Asn Pro Lys Val Phe Asp Pro Ser Arg  
166 420 425 430  
167 Phe Ala Pro Asp Ser Ser His His Ser His Ala Tyr Leu Pro Phe Ser  
168 435 440 445  
169 Gly Gly Ser Arg Asn Cys Ile Gly Lys Gln Phe Ala Met Asn Glu Leu  
170 450 455 460  
171 Lys Val Ala Val Ala Leu Thr Leu Leu Arg Phe Glu Leu Leu Pro Asp  
172 465 470 475 480  
173 Pro Thr Arg Ile Pro Val Pro Ile Ala Arg Leu Val Leu Lys Ser Lys  
174 485 490 495  
175 Asn Gly Ile His Leu Cys Leu Lys Lys Leu Arg  
176 500 505  
178 <210> SEQ ID NO: 3  
179 <211> LENGTH: 2116  
180 <212> TYPE: DNA  
181 <213> ORGANISM: Artificial Sequence  
183 <220> FEATURE:  
184 <223> OTHER INFORMATION: Description of Artificial Sequence; Note = .  
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187 <400> SEQUENCE: 3  
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189 gaaactgtttg gataaaagtga caccactatt acctaataatg tctttcattt cattgtcccc 120  
190 caaaagaggct gttcagggtcc atcaaccctg gtcttgaaat caagctctgc tcacacccct 180  
191 ctcccctcccc caagtaggtg gggcaaccct cctgggggtt gcagacagga ggggtgttcat 240  
192 tgaaaagtgaa ggagaggttg tgatccagaa gctgttgat catgagtgcc tctgctctga 300  
193 gctccatcag attcccagga agcatctctg agtacctca agtagcctct gtgtcagcc 360  
194 tgctcctgt gctcttcaag acagcccgac tctacctgca caggcaatgg ctactcagca 420  
195 gtactcagca gttcccatcc ccaccttctc actggcttt tggacacaag atcttaaagg 480  
196 accaggaccc tcaagatatt ctaactagga ttaagaattt cccaaatgtcc tggccacagt 540  
197 ggctctgggg aagcaaagtg cgcatcaag tgtatgaccc tgactacatg aagctgattc 600  
198 tggggagatc agacccaaaa gctaatggtt cctacagatt tctagctccc tggattggc 660  
199 gtggtttgct tatgtggat ggacagacat ggtttcagca ccgacgaatg ttgacccctag 720  
200 ctttccacta tgacattctg aagccttata cggaaaatcat ggcagactct gttcgtgtaa 780  
201 tgctggataa atgggaacag attgttgcc aggattccac cctggagatc tttcgacaca 840  
202 tcaccttcat gaccttggac accatcatga agtgcctt cagccacag ggcagtgtcc 900  
203 agttggacag aaaatacaag tcctatatcc aggcaatgttga ggacactaac gatctcgtt 960  
204 tttccctgt gccaacatc tttcacatca atgacatcat ctacagatg tcctctaatt 1020  
205 gctgcaaggc taacagtgcc tgcaaaacttg cccatgatca cacagaccaa gtatcaaat 1080  
206 caaggaggat tcaacttcag gatgaggaag agttggaaaa gcttaagaag aaaaggcgat 1140  
207 tggatttcct ggacatcctc ctatgtccca gaatggaaaa tggaaaaagc ttatctgata 1200  
208 aggaccttcg tgctgaagtg gatacttca tgttcgaggg ccatgacacc acagcttagtg 1260  
209 gatctcctg gatcttctat gctttggcca caaatcctga acatcaacag agatgcagga 1320  
210 aggagatcca aagtctccta ggagatggga ctttatcac ctggaaatgac ctggacaaga 1380  
211 tgccctatac taccatgtgc atcaaggagg ccctgaggat ctaccctcct gtaccaagtg 1440  
212 tgagcagaga gctcagctca cctgtcacct ttccagatgg acgttcttta cccaaaggta 1500

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213 tccatgttat gcttccttt tatggccttc atcacaaccc aactgtgtgg ccaaatccag      1560
214 aggtgttga tccttctcgta tttgcaccag ggtctcccg gcacagccac tcattcctgc      1620
215 ccttctcagg aggagcaagg aactgcattg ggaaacagtt tgcgatgaat gagctgaagg      1680
216 tggctgtggc cctgaccctg ctccgcttgc agctgctgcc agatcccacc agagtcccaa      1740
217 tccccataacc aagaattgtg ttgaagtcca agaatgggat ccacttgcatt ctc当地agagc      1800
218 tccaataatc ttcacaggac aagacagctc aaatgcattgc tgccctgcatt tctgtcttc      1860
219 tgtcaattac tctttcccc aatccttgcattc ctcacatctc attcttctt ctc当地cttgc      1920
220 tcacctccac ccacccctg ctggccttgc agtctccattc cctgtcattc ttttcaact      1980
221 tcttctgaga tccctacttg ct当地tcttc tacctgtccc taaccagact gcatgttga      2040
222 ccttctgactt taatgatctc cctaacttgc accctgcattt tctttctgt gtatattcatt      2100
223 ctcttctact ctgtc
225 <210> SEQ ID NO: 4
226 <211> LENGTH: 519
227 <212> TYPE: PRT
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: Description of Artificial Sequence; Note =
232 Synthetic Construct
234 <400> SEQUENCE: 4
235 Met Ser Val Ser Val Leu Ser Pro Ser Arg Leu Leu Gly Asp Val Ser
236 1           5           10          15
237 Gly Ile Leu Gln Ala Ala Ser Leu Leu Ile Leu Leu Leu Leu Ile
238          20          25          30
239 Lys Ala Val Gln Leu Tyr Leu His Arg Gln Trp Leu Leu Lys Ala Leu
240          35          40          45
241 Gln Gln Phe Pro Cys Pro Pro Ser His Trp Leu Phe Gly His Ile Gln
242          50          55          60
243 Glu Leu Gln Gln Asp Gln Glu Leu Gln Arg Ile Gln Lys Trp Val Glu
244 65          70          75          80
245 Thr Phe Pro Ser Ala Cys Pro His Trp Leu Trp Gly Gly Lys Val Arg
246          85          90          95
247 Val Gln Leu Tyr Asp Pro Asp Tyr Met Lys Val Ile Leu Gly Arg Ser
248          100         105         110
249 Asp Pro Lys Ser His Gly Ser Tyr Arg Phe Leu Ala Pro Trp Ile Gly
250          115         120         125
251 Tyr Gly Leu Leu Leu Leu Asn Gly Gln Thr Trp Phe Gln His Arg Arg
252          130         135         140
253 Met Leu Thr Pro Ala Phe His Tyr Asp Ile Leu Lys Pro Tyr Val Gly
254 145          150         155         160
255 Leu Met Ala Asp Ser Val Arg Val Met Leu Asp Lys Trp Glu Glu Leu
256          165         170         175
257 Leu Gly Gln Asp Ser Pro Leu Glu Val Phe Gln His Val Ser Leu Met
258          180         185         190
259 Thr Leu Asp Thr Ile Met Lys Cys Ala Phe Ser His Gln Gly Ser Ile
260          195         200         205
261 Gln Val Asp Arg Asn Ser Gln Ser Tyr Ile Gln Ala Ile Ser Asp Leu
262          210         215         220
263 Asn Asn Leu Val Phe Ser Arg Val Arg Asn Ala Phe His Gln Asn Asp
264 225          230         235         240

```

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/942,429

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Input Set : A:\W110360.txt  
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L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:491 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:494 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:500 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:504 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:505 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:506 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:507 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:509 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:513 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:525 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:526 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
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L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:532 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:537 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/942,429

DATE: 09/18/2001  
TIME: 12:47:43

Input Set : A:\W110360.txt  
Output Set: N:\CRF3\09182001\I942429.raw

L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:540 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8